

Abstract

Hydraulic Vehicle Brake System

The invention relates to a hydraulic vehicle brake system, including a hydraulic brake pressure generator which essentially consists of a master brake cylinder (11) and a hydraulic booster (7) connected upstream thereof, the pressure of which can be applied to wheel brakes of the vehicle. For the purpose of brake force boosting, the hydraulic brake pressure generator can be acted upon by a hydraulic pressure of an electronically actuatable independent pressure source (4, 19, 20) which is connected to the hydraulic booster (7) by way of a conduit (50) in which an analog or analogized valve (5) is arranged. By way of a conduit (12, 12.2), the hydraulic brake pressure generator is connected to a pressure fluid supply reservoir (13) that is connected to the electronically actuatable independent pressure source (4, 19, 20) by way of a conduit (12a, 12) in which an additional analog or analogized valve (6) is arranged. In the normal case, the brake actuating device is uncoupled from the hydraulic system in the hydraulic-mechanical fashion. A simulator (61) cooperating with the brake actuating device and a device for detecting the driver deceleration request (60, 64) is provided to this end, and the electronically actuatable independent pressure source (4, 19, 20) is actuatable according to the detected driver deceleration request (brake-by-wire system).

(Figure 2)